

Receiving Report

Date: 15-04-18
 Supplier: Core.

Batch No: 132169
 Dart P/O: 27013

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☒ No ☐
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

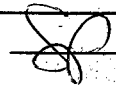
Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☐ N/A ☒
 Work Order ☐ N/A ☒

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12



Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO27013**

Purchase Order Date 1/12/2015

PO Print Date 1/16/2015

Page Number 1 of 6

#79

Order From :

VU-COR001

Ship To : DART AEROSPACE LTD

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85297
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 480 497 6136

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	AN3C36A	Bolt	4/23/2015 Yes 4/23/2015	FN	80.00 Each	\$10.00	\$800.00
Line Total:							\$800.00
2	AN3C37A	BOLT	4/23/2015 Yes 4/23/2015		70.00 Each	\$6.00	\$420.00
Line Total:							\$420.00
3	AN3C41A	Bolt	4/23/2015 Yes 4/23/2015	FN	75.00 Each	\$14.50	\$1,087.50

PO Instructions: Fedex Acc#151793240

Note:

1/16/2015

SP1504-28

DART
AEROSPACE

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER**Purchase Order ID PO27013****Purchase Order Date** 1/12/2015**PO Print Date** 1/16/2015**Page Number** 2 of 6**Order From :**

VU-COR001

Ship To : DART AEROSPACE LTD

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85297
US

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name**Vendor Phone**

480 497 6136

Buyer

Chantal Lavoie

Customer POID**Customer Tax #**

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Ship To Contact**Ship To Phone****Ship Via:**

FedEx Overnight collect

Ship Acct:**Line Total:****\$1,087.50**

4 ✓ AN3C42A

Bolt

4/23/2015

Yes

4/23/2015

10.00 ✓

Each

\$9.50

\$95.00 ✓

Line Total:**\$95.00**

5 ✓ AN3C46A

Bolt

4/23/2015 FN

Yes

4/23/2015

70.00 ✓

Each

\$10.00

\$700.00 ✓

Line Total:**\$700.00**

6 ✓ AN3C50A

Bolt

4/23/2015 FN

Yes

4/23/2015

24.00 ✓

Each

\$17.00

\$408.00 ✓

Line Total:**\$408.00****PO Instructions:** Fedex Acc#151793240**Note:**

2015-04-28

1/16/2015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO27013**

Purchase Order Date 1/12/2015

PO Print Date 1/16/2015

Page Number 4 of 6

Order From :

VU-COR001

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85297
US

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone

480 497 6136

Ship To Contact

Ship To Phone

Ship Via:

FedEx Overnight collect

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

Line Total:

\$702.00

11 ✓ AN8C16

Bolt

4/23/2015 FN

7.00 ✓

\$15.00

\$105.00 ✓

Yes

Each

4/23/2015

Line Total:

\$105.00

12 ✓ AN8C21A

Bolt

4/23/2015 FN

30.00 ✓

\$13.50

\$405.00 ✓

Yes

Each

4/23/2015

Line Total:

\$405.00

13 ✓ AN8C35A

Bolt

4/23/2015 FN

15.00 ✓

\$26.00

\$390.00 ✓

Yes

Each

4/23/2015

Line Total:

\$390.00

SP15-0128

PO Instructions: Fedex Acc#151793240

Note:

1/16/2015

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE

GILBERT, AZ 85298

USA

Ph: 480-497-6136 Fax: 480-497-3568

EMail: sales@coreaviation.com

Packing List

Ship Doc : CA150424-1

Printed : 04/24/2015

No. Items: 16

Page : 1 of 2

Bill To:

Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Ship To:

Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Sales Order : 27013

AWB : 773451302144

Resale : Not On File

Order Date : 01/19/2015

Customer# : DALD

Buyer :

Ship Date : 04/24/2015

Terms : N 10

Contact : 613-632-9577

Ship Via : FEDEX

Sales Person: KAIZER HUSEIN

Weight :

Ship Account: 151793240

FOB : GILBERT, AZ

No. Boxes :

Dimensions :

Item	Part Number/Description	CD	Location	UM	Ord	B/O	Shipped	Cust. PO#
1	AN3C36A BOLT NSN:5306-01-020-9473	NE	HC202	EA	80	0	80	27013
2	AN3C37A BOLT	NE	HC202	EA	70	0	70	27013
3	AN3C41A BOLT	NE	HC202	EA	75	0	75	27013
4	AN3C42A BOLT	NE	HC202	EA	10	0	10	27013
5	AN3C46A BOLT	NE	HC202	EA	70	0	70	27013
6	AN3C50A BOLT NSN:5306-00-582-9889	NE	HC202	EA	24	0	24	27013
7	AN4C46A BOLT NSN:5306-00-702-6010	NE	HC202	EA	70	0	70	27013
8	AN4C52A BOLT NSN:5306-00-197-6277	NE	HC202	EA	15	0	15	27013
9	AN5C34A BOLT	NE	HC202	EA	8	0	8	27013
10	AN6C44A BOLT NSN:5306-00-275-9647	NE	DART	EA	52	0	52	27013
11	AN8C16 BOLT MACHINE NSN:5306-00-180-2749	NE	HC202	EA	7	0	7	27013

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TERMS AND CONDITIONS OF SALE

MATERIALS ON THIS ORDER CONFORM TO SPECIFICATIONS AS LISTED ON YOUR PO/RO.

MATERIAL IS SUBJECT TO YOUR INSPECTION

OUR TERMS ARE AS PER OUR MUTUAL LETTERS OF AGREEMENT.

OVERDUE INVOICES WILL BE SUBJECT TO 1.5% INTEREST ON OVERDUE AMOUNTS.

NO RETURN OR REFUNDS AFTER 10 DAYS FROM INVOICE DATE.

DAMAGE OR SHORTAGE CLAIMS MUST BE MADE WITHIN 10 DAYS OF INVOICE DATE.

NO RETURNS ALLOWED WITHOUT PRIOR APPROVAL. RETURNED GOODS COULD BE

SUBJECT TO A RESTOCK CHARGE.

COUNTRY OF ORIGIN OF GOODS : USA

TYPE OF GOODS : AIRCRAFT PARTS

HARMONIZED CODE : 8803-20-0050

SPIS-04-28

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE

GILBERT, AZ 85298

USA

Ph: 480-497-6136 Fax: 480-497-3568

Email: sales@coreaviation.com

DUPLICATE

Invoice

Invoice : CA150424-1

Date : 04/24/2015

No. Items : 16

Page : 1 of 2

To:
Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Ship To:
Dart Aerospace Ltd.
1270 Aberdeen St.
Hawkesbury, ON K6A 1K7
Canada

Sales Order : 27013	AWB : 773451302144	Resale : Not On File
Your Order# : 27013	Customer# : DALD	Buyer :
Order Date : 01/19/2015	Terms : N 10	Contact : 613-632-9577
Ship Date : 04/24/2015	Sales Person : KAIZER HUSEIN	Weight :
Ship Via : FEDEX	FOB : GILBERT, AZ	No. Boxes :
		Dimensions :

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	Total Amt
1	AN3C36A BOLT NSN: 5306-01-020-9473	80	0	NE	\$10.00 EA	\$800.00
2	AN3C37A BOLT	70	0	NE	\$6.00 EA	\$420.00
3	AN3C41A BOLT	75	0	NE	\$14.50 EA	\$1,087.50
4	AN3C42A BOLT	10	0	NE	\$9.50 EA	\$95.00
5	AN3C46A BOLT	70	0	NE	\$10.00 EA	\$700.00
6	AN3C50A BOLT NSN: 5306-00-582-9889	24	0	NE	\$17.00 EA	\$408.00
7	AN4C46A BOLT NSN: 5306-00-702-6010	70	0	NE	\$19.00 EA	\$1,330.00
8	AN4C52A BOLT NSN: 5306-00-197-6277	15	0	NE	\$20.00 EA	\$300.00
9	AN5C34A BOLT	8	0	NE	\$23.00 EA	\$184.00
10	AN6C44A BOLT NSN: 5306-00-275-9647	52	0	NE	\$13.50 EA	\$702.00
11	AN8C16 BOLT MACHINE NSN: 5306-00-180-2749	7	0	NE	\$15.00 EA	\$105.00

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TERMS AND CONDITIONS OF SALE

MATERIALS ON THIS ORDER CONFORM TO SPECIFICATIONS AS LISTED ON YOUR PO/RO.

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NO RETURN OR REFUNDS AFTER 10 DAYS FROM INVOICE DATE.

DAMAGE OR SHORTAGE CLAIMS MUST BE MADE WITHIN 10 DAYS OF INVOICE DATE.

NO RETURNS ALLOWED WITHOUT PRIOR APPROVAL. RETURNED GOODS COULD BE

SUBJECT TO A RESTOCK CHARGE.

#####

COUNTRY OF ORIGIN OF GOODS : USA

TYPE OF GOODS : AIRCRAFT PARTS

HARMONIZED CODE : 8803-20-0050

#####

SP1504-28

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE

GILBERT, AZ 85298

USA

Ph: 480-497-6136 Fax: 480-497-3568

Email: sales@coreaviation.com

DUPLICATE

Invoice

Invoice : CA150424-1

Date : 04/24/2015

No. Items: 16

Page : 2 of 2

Item	Part Number/Description	Shipped	BackOrd	CD	Unit Price	Total Amt
12	AN8C21A BOLT NSN: 5306-00-579-3481	30	0	NE	\$13.50 EA	\$405.00
13	AN8C35A BOLT NSN: 5306-00-855-7396	15	0	NE	\$26.00 EA	\$390.00
14	MS20601AD4W10 BLIND RIVET	50	0	NE	\$5.00 EA	\$250.00
15	MS21920-25 CLAMP	40	0	NE	\$22.50 EA	\$900.00
16	MS21920-28 CLAMP	38	0	NE	\$22.50 EA	\$855.00

CO 15-04-28

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Sub Total :	\$8,931.50
Tax Total :	
S + H :	\$0.00
Balance :	\$8,931.50

KH

CERTIFICATE OF CONFORMANCE

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE, GILBERT, AZ 85298, USA

Phone: 480-497-6136 Fax: 480-497-3568 FAA Sta. #: Web:

Invoice : CA150424-1
Date : 04/24/2015
PO : 27013
Issued By : KAIZER HUSEIN
Page : 1 of 2

THIS IS TO CERTIFY THAT ALL GOODS ON C.O.R.E. INVOICE WERE SHIPPED IN ACCORDANCE WITH THE PART SPECIFICATIONS ON CUSTOMERS PO & TO THE BEST OF OUR KNOWLEDGE AND BELIEF, MEET THOSE STANDARDS.

ITEM(S) WERE DETERMINED TO BE IN STATED CONDITION BY VISUAL CONDITION AND OR IN ACCORDANCE WITH RECEIVING RECORDS.

ALL DETAILED RECORDS ARE KEPT ON FILE AT C.O.R.E. AVIATION SERVICES FOR ANY FUTURE CUSTOMER INSPECTION.

Item	Part Number/Description		Shipped	CD
1	AN3C36A Lot:15493	BOLT	80	NE
2	AN3C37A Lot:15975	BOLT	70	NE
3	AN3C41A Lot:15843	BOLT	75	NE
4	AN3C42A Lot:COR005-02-27-17625-1	BOLT	10	NE
5	AN3C46A Lot:16290;326327	BOLT	70	NE
6	AN3C50A Lot:15896	BOLT	24	NE
7	AN4C46A Lot:15492;15603	BOLT	70	NE
8	AN4C52A Lot:15663	BOLT	15	NE
9	AN5C34A Lot:17481	BOLT	8	NE
10	AN6C44A Lot:327056	BOLT	52	NE
11	AN8C16 Lot:COR005-10-23-51239-1	BOLT MACHINE	7	NE

CERTIFICATE OF CONFORMANCE

C.O.R.E. Aviation Services, Inc.

16305 E. TWIN ACRES DRIVE, GILBERT, AZ 85298, USA

Phone: 480-497-6136 Fax: 480-497-3568 FAA Sta. #: Web:

Invoice : CA150424-1
Date : 04/24/2015
PO : 27013
Issued By : KAIZER HUSEIN
Page : 2 of 2

Item	Part Number/Description		Shipped	CD
12	AN8C21A Lot:29420;15494	BOLT	30	NE
13	AN8C35A Lot:15838	BOLT	15	NE
14	MS20601AD4W10 Lot:86164740	BLIND RIVET	50	NE
15	MS21920-25 ALTERNATE:MS21920-25 (QTY:40) Lot:175634	CLAMP	40	NE
16	MS21920-28 Lot:173427/A Cert#:PL-42 8803(38)	CLAMP	38	NE

KH

KAIZER HUSEIN

BUTLER, INC.

1600 W. 166th STREET
GARDENA, CA 90247

Packing List

Customer No.: C.O.R.E

Ship To: **CORE AVIATION SERVICES, INC.**

16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Bill To: **CORE AVIATION SERVICES, INC.**

16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Date		Ship Via		F.O.B.		Terms	
11/11/13		UPS COL		Origin			
Purchase Order Number			Order Date		Sales Person		Our Order Number
STK121030-3			11/02/12				15842
Quantity			U/M	Item Number	Description	Serial Number	
Req	Shipped	B.O.					
500	500		each	AN3C46A	LOT 1000 / 6290		

BUTLER INC.

Thank You

1600 West 166th Street Gardena, CA 90247
(310) 323-3114 FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

CAGE # 59053

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85298

CERTIFICATE OF COMPLIANCE

BUYER ORDER NO.: STK121030-3 ITEM: 2

NSN #: NA PART NUMBER: AN3C46A REV: 2

DESCRIPTION: BOLT, HEX HEAD, .1900-32 x 4.781, 431, PASSIVATE

SPECIFICATIONS: NASM6812-3, ASTM A 493-09, AMS2759E, AMS2700E

QUANTITY: 500 LOT #: 16290 HEAT #: G20114

BUTLER INC. HEREBY CERTIFIES THAT THIS LOT HAS BEEN PRODUCED, SAMPLED, INSPECTED, TESTED, MARKED AND PACKAGED IN ACCORDANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS. FURTHERMORE, BUTLER INC. CERTIFIES THAT DOCUMENTED EVIDENCE OF COMPLIANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS APPLICABLE TO THIS LOT IS ON FILE AT OUR PLANT IN THE FORM OF MECHANICAL, METALLURGICAL AND/OR CHEMICAL TEST REPORTS AND INSPECTION RECORDS, AND IS AVAILABLE FOR BUYERS REVIEW.

DATE OF EXECUTION: 11/11/13

SIGNATURE: Tod F. Polidori
TOD F. POLIDORI

TITLE: Q.A. MANAGER

Form #BIC015
Rev 11/97

Order No: 3578655
Time 12:07:47



FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

B04163
Cust. NO.: 24619
P.O. NO.:

CERTIFICATE OF COMPLIANCE

BUTLER INC ***
1600 W 166TH ST
** MAIL OUT INVOICES **
GARDENA CA 90247-4704

ROOKE MFG
3360 W HARVARD ST

SANTA ANA CA 92704-3920

04/15/13

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CD 431 ANN AMS 5628 GREEN/YELLOW		
50	BARS 1/4"RD 12'RL	4200	G20114

REVIEWED BY: 

DATE: 5-13-13

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC,ETC.)

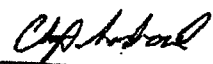
WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

**NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT**

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

-- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE --

RAW MAT'L USED
FOR LOT # 16290


CHIP SANDOVAL - Q.C. MANAGER

Dunkirk Specialty Steel, LLC
A Universal Stainless & Alloy Products Company
P.O. Box 319
830 Brigham Rd.
Dunkirk, NY 14048

Quality System Registered to
ISO9001 and AS9100

Material Certification

MILL ORDER: 0048498
PART NUMBER: S#4200
P.O. NUMBER: 47311-17

P.O. DATE: 11/7/2012

PAGE NUMBER: 1 of 1

PRINTED: 2/18/13 14:02

620114
S FRY STEEL COMPANY
O T P.O. BOX 4048
L O
D
SANTA FE SPRINGS, CA 90670

S FRY STEEL CO
H T C/O C.M.I. FREIGHT TRANS
I O 4201 WEST 36TH ST
P
CHICAGO, IL 60623

Material Description: STAINLESS STEEL ROUND BAR 431 EAF+ROD ANNEALED CENTERLESS GROUND AMS 2303F, ASTM A484-11, MIL-S-18732D, AMS-S-18732B, AMS 5628F, McDonnell Douglas DMS-1565G (except sonic), Hi Shear #115J (Type II, chemistry only), Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CLM, ASTM A276-10 (431),

Size: .2500 DIAM X 132.0000 MIN/ 156.0000 MAX RANDOM LENGTH

Heat Number	C	0.14	MN	0.59	SI	0.36	S	0.002	P	0.018
G20114	CR	16.38	W	<0.05	V	0.06	NI	2.26	MO	0.13
	CO	<0.05	CU	0.13	SN	0.007	PB		CB	0.03
	TA		AL	<0.01	TI	<0.01	FE		B	
	O		MG		CA		SE		ZR	
	AG		BI		N	0.051	H		CQ	

HARDNESS (AS SHIPPED): 258 BHN

TENSILE CAPABILITY: 1875F/1HR/OQ+1175F/3HR/AC

T/S KSI	Y/S KSI	%EL
152.0	112.1	19.0

TENSILE CAPABILITY: 1875F/1HR/OQ + -100F/2HR/AC+550F/2HR/AC + 550F/2HR/AC

T/S KSI	Y/S KSI	%EL	%R/A
214.6	156.4	15.0	56.0

HARDENABILITY : Rc 45.7

MICRO TEST: ACCEPTABLE

MACRO ETCH TEST: ACCEPTABLE

GRAIN SIZE: 8.5

FERRITE: <4%

MAGNETIC PARTICLE F/S = 0/0

KNOWINGLY RECORDING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS
OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER
FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

S# 4200

MELT SOURCE: UNIVERSAL/DUNKIRK

CHEMICAL BALANCE IS P#

MATERIAL MELTED IN THE USA BY UNIVERSAL STAINLESS & ALLOY PRODUCTS, BRIDGEVILLE, PA

MATERIAL MANUFACTURED IN THE USA

FEB 25 2013

REVIEWED BY: _____
DATE: 5-13-13

BY: C. J. [Signature]
SHIP SANITARY - Q.C. MANAGER

RAW MAT'L USED
FOR LOT # 116290

1/4 AD
/S/John M. Berry

/S/John M. Berry

02/18/13

Prepared by: John M. Berry, QA

John M. Berry, QA Technician

Date

Mater. and manufactured in compliance with DEAPS 252.225-2014 ALT 1 Melted by USAP in Bridgeville, PA, USA. Certification 1AW DIN 50 049 / EN 10204 3.1. Material complies with EU directive 2002/95/EC (RoHS). The test results shown are certified to be a correct statement or records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Management System documented in QP Manual, Rev. 6 dated 1/6/2012, conforming to NCA-3800. Material testing was performed in accordance with ASTM A370, A504, E8, E10, E18, E23, E48, E112, E113, E114, E115, E116, E117, E118, E119, E120, E121, E122, E123, E124, E125, E126, E127, E128, E129, E130, E131, E132, E133, E134, E135, E136, E137, E138, E139, E140, E141, E142, E143, E144, E145, E146, E147, E148, E149, E150, E151, E152, E153, E154, E155, E156, E157, E158, E159, E160, E161, E162, E163, E164, E165, E166, E167, E168, E169, E170, E171, E172, E173, E174, E175, E176, E177, E178, E179, E180, E181, E182, E183, E184, E185, E186, E187, E188, E189, E190, E191, E192, E193, E194, E195, E196, E197, E198, E199, E200, E201, E202, E203, E204, E205, E206, E207, E208, E209, E210, E211, E212, E213, E214, E215, E216, E217, E218, E219, E220, E221, E222, E223, E224, E225, E226, E227, E228, E229, E230, E231, E232, E233, E234, E235, E236, E237, E238, E239, E240, E241, E242, E243, E244, E245, E246, E247, E248, E249, E250, E251, E252, E253, E254, E255, E256, E257, E258, E259, E260, E261, E262, 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TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 8/21/2013
Purchase Order Number: 25536
Work Order Number: BUT004-08-16-41627-1

Part No.:	AN3C46A REV. 2
Lot No.:	16290
Heat No.:	G20114
Material:	431
Specification:	NASM 6812-3

FASTENER EVALUATION — STAINLESS STEEL

Number of Pieces:	5
Etchant:	
Micro:	Vilella's
Temperature:	Ambient
Magnification:	100X/200X
Macro:	Vilella's
Temperature:	Ambient
Magnification:	20X
Grain Flow:	
Head:	Grain flow follows the contour of the head. (Acceptable)
Head to Shank Fillet:	Grain flow follows the contour of the head to shank fillet. (Acceptable)
Threads:	Grain flow follows the contour of the threads. (Acceptable)
Cracks:	The entire sample shows no evidence of cracks.
Discontinuities / Defects:	
Head:	No discontinuities / defects found.
Threads:	
Crest Laps:	0.002" (Within limits)
Flank Laps:	No discontinuities / defects found.
Root Laps:	No discontinuities / defects found.
Grain Growth:	None
Grain Size:	ASTM 7.0
Surface Condition on Head:	No surface contamination (IGA) found.
Surface Condition on Threads:	No surface contamination (IGA) found.
Microstructure:	Exhibits fine tempered martensite with no visible carbide precipitation in the grain boundaries.
Surface Hardening:	None except as created in cold working of fillet radius or rolling of threads.

MATERIAL CONFORMS TO SPECIFICATION

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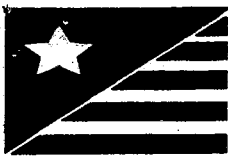
DATE: 8-21-13

Respectfully submitted


Kelly Nguyen
Senior Quality Administrator

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PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

BUTLER INC.

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GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

CERTIFIED TEST REPORT

CAGE CODE: 59053

PART NO: AN3C46A REV: 2
LOT NO: 16290
HEAT NO: G20114
MAT'L: 431

PROCUREMENT SPEC: NASM6812 REV: 3
LOT SIZE: 668
TEST DATE: 08/23/13
CERTIFICATION NO: 4776

Test type: Rockwell hardness

Test value: N/A

Test method:

Butler procedure no:

Results:

1.	5.	9.	13.	17.	21.	25.	29.
2.	6.	10.	14.	18.	22.	26.	30.
3.	7.	11.	15.	19.	23.	27.	31.
4.	8.	12.	16.	20.	24.	28.	32.

Technician: _____

Stamp: _____

Test type: Axial tensile

Test value: 2210 lbs min

Test method: NASM1312-8

Butler procedure no: BIQOP 8.2.4-5.4

Results:

1. 3491 lbs	5. 3485 lbs	9.	13.	17.	21.	25.	29.
2. 3515 lbs	6.	10.	14.	18.	22.	26.	30.
3. 3526 lbs	7.	11.	15.	19.	23.	27.	31.
4. 3438 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: P. Ron
Flavio Ron

Stamp:

Test type: Double shear

Test value: 4250 lbs min

Test method: NASM1312-13

Butler procedure no: BIQOP 8.2.4-5.5

Results:

1. 6364 lbs	5. 6767 lbs	9.	13.	17.	21.	25.	29.
2. 6445 lbs	6.	10.	14.	18.	22.	26.	30.
3. 6808 lbs	7.	11.	15.	19.	23.	27.	31.
4. 6831 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: P. Ron
Flavio Ron

Stamp:

Test type: Recess torque

Test value: N/A

Test method:

Butler procedure no:

Deformation allowable:

Installation:

Removal:

Sample size:

Results:

Technician: _____

Stamp: _____

Test type: Magnetic permeability

Test value: N/A

Test method:

Butler procedure no:

Results:

Sample size:

Technician: _____

Stamp: _____

Material, as tested, conforms to specification requirements. The information on this report represents only the material tested. This report shall not be reproduced except in full without the written approval of Butler Inc.

CALIFORNIA SCREW PRODUCTS CORP.

14957 GWENCHRIS COURT

PARAMOUNT, CALIF. 90723-3423

CAGE NUMBER : 82507

Job Number : 326327

Airbus UK Approval No. AUK/SA/30144

BAE/AG/30235 / MAA

TEST REPORT

Part Number : AN3C46A
 Customer : WESCO AIRCRAFT
 Procurement Spec. : NASM6812 REV. 3
 Surface Finish Spec : AMS2700 REV. E
 Heat Treat Spec : AMS2759/5 REV. D
 Mgmt Permeability : N/A

Part Standard : NASM3-20 REV. 2
 Cust. Purchase Order Number : 1232043
 Thread Size & Form : .190-32 UNF-3A
 Thread Spec : MIL-S-7742 REV. D
 Sample Size Spec. : NASM6812 REV. 3

Shipped Quantity*: 2000
 Mfg Quantity: 2100
 Matl Spec: AMS 5628 REV. F
 Item Description: Bolt
 Heat Number: 568515

* Actual piece count is within +/- 2% of the shown lot quantity.

NON-DESTRUCTIVE TESTS / SUBCONTRACTED (SEE CERTIFICATION)

Sample Size : 0 specimens Inspection Results: Accept : 0 Reject : 0 specimens
 Magnetic Particle : N/A Fluorescent Penet. : N/A

METALLURGICAL EXAMINATION RESULTS

Sample Size : 5 specimens Accept : 5 Reject : 0 Lab Mount No. : 44473
 GRAIN SIZE : 7.0 HEAD STRUCTURE : Accept LAPS : Accept MICRO STRUCTURE : Accept
 FILLET COLD WORKED : Accept DECARB : Accept SEAMS : Accept CARBURIZED : Accept
 GRAIN FLOW HEAD : Accept GRAIN FLOW THREAD : Accept CRACKS : Accept THREAD RUN OUT : Accept

MECHANICAL TESTS RESULTS

ULTIMATE TENSILE STRENGTH (lbs.) - Loc. of Failure: Threads Minimum Req.: 2210
 Sample Size : 5 specimens Accept : 5 Reject : 0 Maximum Req.: 0

1. 3272	2. 3246	3. 3228	4. 3284	5. 3259	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

SHEAR (lbs.) S/D : SINGLE Sample Size : 5 specimens Accept : 5 Reject : 0 Minimum Req.: 2125

1. 2734	2. 2687	3. 2624	4. 2649	5. 2689	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

HARDNESS TEST - Sample Size : 5 Hardness Req. RC : 26-32 Hardness Results : 28-29

STRESS RUPTURE TEST - N/A Load (Lbs.) : 0 Temperature (F) : 0 Periodic test, REF Job No.
 Sample Size : 0 Hours : 0

FATIGUE TEST - N/A Cycles : 0 Min Req. : 0
 Sample Size : 0 Low Load (lbs.) : 0 High Load (lbs.) : 0

TORQUE TEST - N/A Sample Size : 0 Load (Lbs/in) : 0

STRESS DURABILITY TEST - N/A Sample Size : 0 LOAD (Lbs.) : 0 Hours : 0

STATEMENT OF CONFORMANCE:

This report relates only to items inspected/tested. Deviations from standard test methods, if any, are noted, and results from subcontracted inspection or testing, if any, are identified. All items were manufactured in the USA under a quality management system, which complies with ISO 9001 and with AS 9100. CALIFORNIA SCREW PRODUCTS CORP. hereby states: That the above product is mercury free; that the above listed lot has been produced, sampled, tested, inspected and marked in accordance with all requirements and that the product complies with all specification and contract requirements; that evidence of which is in the files of our company subject to examination. This report shall not be reproduced except in full, unless authorized in writing by CALIFORNIA SCREW PRODUCTS CORPORATION.

MARIAELENA
TORRES



FINAL INSPECTOR

(Name, Signature, Stamp and Date)

OCT 22 2013

BUTLER, INC.

1600 W. 166th STREET
GARDENA, CA 90247

Packing List

Customer No.: C.O.R.E

Ship To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Bill To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Date		Ship Via		F.O.B.		Terms	
03/26/13		UPS COL		Origin			
Purchase Order Number			Order Date		Sales Person		Our Order Number
STK120511			05/14/12				15492
Quantity			U/M	Item Number	Description	Serial Number	
Req	Shipped	B.O.					
500	500		each	AN4C46A			LOT 15492

BUTLER INC.

Thank You

1600 West 166th Street Gardena, CA 90247
(310) 323-3114 FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



PERRY JOHNSON
REGISTRARS, INC.
ISO 9001 REGISTERED

CAGE # 59053

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85298

CERTIFICATE OF COMPLIANCE

BUYER ORDER NO.: STK120511 ITEM: 2

NSN #: NA PART NUMBER: AN4C46A REV: 2

DESCRIPTION: BOLT, HEX HEAD, .2500-28 x 4.781, 431, PASSIVATE

SPECIFICATIONS: NASM6812-2, ASTM A 493-09, AMS-H-6875B, AMS2700E

QUANTITY: 500 LOT #: 15492 HEAT #: G18835

BUTLER INC. HEREBY CERTIFIES THAT THIS LOT HAS BEEN PRODUCED, SAMPLED, INSPECTED, TESTED, MARKED AND PACKAGED IN ACCORDANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS. FURTHERMORE, BUTLER INC. CERTIFIES THAT DOCUMENTED EVIDENCE OF COMPLIANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS APPLICABLE TO THIS LOT IS ON FILE AT OUR PLANT IN THE FORM OF MECHANICAL, METALLURGICAL AND/OR CHEMICAL TEST REPORTS AND INSPECTION RECORDS, AND IS AVAILABLE FOR BUYERS REVIEW.

DATE OF EXECUTION: 03/26/13

SIGNATURE: Tod F. Polidori
TOD F. POLIDORI

TITLE: Q.A. MANAGER

Order No: 3432235
Time 10:13:08



FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

B04163
Cust. NO.: 22883
P.O. NO.:

CERTIFICATE OF COMPLIANCE

BUTLER INC ***
1600 W 166TH ST
** MAIL OUT INVOICES **
GARDENA CA 90247-4704

ROOKE MFG
3360 W HARVARD ST

SANTA ANA CA 92704-3920

06/28/12

QTY	--DESCRIPTION--	--ITEM CODE--	--HEAT NUMBER--
	CG 431 ANN AMS 5628 GREEN/YELLOW		
26	BARS .510"RD 12'RL ONE HEAT LOT	4290	G18870
100	BARS 1/4"RD 12'RL ONE HEAT LOT USE HT# G18835	4200	G18835
59	BARS .265"RD 12'RL ONE HT LOT	4210	G18835

REVIEWED BY:

JB
A 5

DATE: 7-6-12

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC,ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED
CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

**NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT**

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

MAT'L USED
FOR LOT #

15492

Chip Sandoval
CHIP SANDOVAL - Q.C. MANAGER



Dunkirk Specialty Steel, LLC

A Universal Stainless Company

P.O. Box 319

830 Brigham Rd.

Dunkirk, NY 14048

Quality System Registered to
ISO9001 and AS9100

Material Certification

ILL ORDER: 0042386
ART NUMBER: S#4200
O. NUMBER: 46809-25

P.O. DATE: 11/22/2011

PAGE NUMBER: 1 of 1

PRINTED: 4/20/12 07:26

S FRY STEEL COMPANY
O T P.O. BOX 4048
L O
D

SANTA FE SPRINGS, CA 90670

S FRY STEEL CO
H T C/O C.M.I. FREIGHT TRANS
I O 4201 WEST 36TH ST
P

CHICAGO, IL 60623

Material Description: STAINLESS STEEL ROUND BAR 431 EAF+AOD ANNEALED CENTERLESS GROUND AMS 2303F, ASTM A484-10, Q1L-S-18732D, AMS-S-18732B, AMS 5628F, McDonnell Douglas DMS-1565G (except sonic), Hi Shear #115J (Type II, chemistry only), Federal QQ-S-763C Am. 2 (431 cond. A, exc. hard. & impact), waive CLM, ASTM A276-10 (431).

Size: .2500 DIAM X 132.0000 MIN/ 156.0000 MAX RANDOM LENGTH

Heat Number:	C	MN	SI	S	P
G18835	0.15	0.60	0.35	0.004	0.020
FNL	CR 16.12	W <0.05	V 0.03	NI 2.19	MO 0.06
Wt	CO <0.05	CU 0.15	SN 0.010	FB	CB 0.02
	TA	AL <0.01	TI <0.01	FE	B
	O	MG	CA	SE	2R
	AG	BI	N 0.048	H	CQ

HARDNESS (AS SHIPPED): 247 BHN

TENSILE CAPABILITY: 1875F/1HR/OQ+1175F/3HR/AC

T/S KSI	Y/S KSI	REL
152.4	114.7	18.9

TENSILE CAPABILITY: 1875F/1HR/OQ + -100F/2HR/AC+550F/2HR/AC + 550F/2HR/AC

T/S KSI	Y/S KSI	REL	HR/A
214.9	158.4	16.0	59.0

HARDENABILITY: Rc 49.0

MICRO TEST: ACCEPTABLE

MACRO ETCH TEST: ACCEPTABLE

GRAIN SIZE: 8

FERRITE: <4%

MAGNETIC PARTICLE F/S = 0/0

KNOWINGLY RECORDING FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHED AS A FELONY UNDER FEDERAL STATUTES INCLUDING FEDERAL LAW, TITLE 18, CHAPTER 47.

FRY STEEL CO. CERTIFIES THAT THIS IS A TRUE COPY OF THE ORIGINAL MILL TEST REPORT NOW ON FILE RECEIVED AND INSPECTED

S# 4200

MELT SOURCE: UNIVERSAL/DUNKIRK

CHEMICAL BALANCE IS F#

MATERIAL MELTED IN THE USA BY UNIVERSAL STAINLESS & ALLOY PRODUCTS, BRIDGEVILLE, PA

MATERIAL MANUFACTURED IN THE USA

MAT'L USED
FOR LOT #

15492

BY Chip Sandoval
CHIP SANDOVAL - Q.C. MANAGER

MAY 03 2012

/S/John M. Berry

/S/John M. Berry

04/20/12

Prepared by: John M. Berry, QA

John M. Berry, QA Technician

Date

Melted and manufactured in compliance with DFARS 252.225-7014 ALT 1. Melted by USAP in Bridgeville, PA, USA. Certification IAW DIN 50 049 / EN 10204 3.1. Material complies with EU directive 2002/95/EC (RoHS). The test results shown are certified to be a correct statement of records that were derived from testing samples of the material. Results meet applicable specifications. No welding was performed on the material supplied on this order. Material is free from mercury contamination. Material is of NAFTA origin. This material was produced under the Dunkirk Specialty Steel Quality Management System documented in QP Manual, Rev. 6 dated 1/6/2012, conforming to NCA-3800. Material testing was performed as applicable in accordance with ASTM A370, A604, E8, E10, E18, E23, E45, E112, E139, E381, E572, E1019, STP-CHEM-GDS, E1444, & AMS 2315. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal



10643 S. NORWALK BL.
SANTA FE SPRINGS
CALIFORNIA 90670
562-944-8808
800-622-6624
FAX 562-944-1499
www.continentalht.com

CERTIFICATION

CERTIFICATION NUMBER
614869

S
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BUTLER INC
1600 W 166TH STREET
GARDENA, CA 90247-4704

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BUTLER INC
1600 W 166TH STREET
GARDENA, CA 90247-4704

CUSTOMER NUMBER	DATE RECEIVED	CUSTOMER P.O. NUMBER	CUSTOMER SHIPPER
0047500	09/04/12	23852	

QUANTITY	WEIGHT	PART NUMBER / DESCRIPTION
1442	104	AN4C46A REV.2 LOT# 15492 HT# G18835 END USER: C.O.R.E H/T, 125-145 KSI PER P.O.
		3 PANS

MATERIAL	HARDNESS	MAX-CROSS SECTION	CASE DEPTH	CORE HARDNESS
431 S/S	26-32 HRC	.250		

SPECIFICATIONS AMS 2759/5 D AMS-H-6875 B

PROCESS	SPEC TEMP	SPEC TIME	EQUIP.	ACT TEMP	TIME IN	TIME AT-HEAT	TIME OUT	ATMOS DEWPT	Q-MED & TEMP	DATE
RACK			RACK		.75	Y				09/15
LOADCOUPLE			WIRE		.08	Y				09/15
SET V P			ATMOS		.01	Y				09/15
PREHEAT	1400	1:30	V5	1400	19:22	21:50	22:20	VAC	RAISE	09/15
AUSTENITIE	1875	1:00	V5	1875	22:20	23:18	00:18	VAC	OIL	09/15
SUBZERO	-100	2:00	CB1	-100	02:04	02:10	04:10	NIT	A/W	09/16
SNAPTEMPER	400	1:30	D7	400	04:16	04:40	06:10	AIR	A/C	09/16
TEMPER 15	1125	4:00	D1	1125	13:50	14:20	18:20	AIR	A/C	09/17
TEST RESULTS: 31 HRC										
TEMPER 15	1125	4:00	D1	1125	19:10	19:30	23:30	AIR	A/C	09/17
GLASS BEAD			B6		1.00	Y				09/19

REVIEWED BY:

DATE: 9-24-12

HARDNESS: 29-30 HRC QTY TESTED: 15 QTY ACCT: 1442 QTY REJT: 0

INSPECTOR
DANNY ELLEWORTH

DATE
09/20/12

QUALITY MANAGER
JIMMY MARTINEZ for DON LOWMAN

This Process Certification covers thermal processing and/or hardness testing only. No particular mechanical properties of any material should be assumed, or are implied, as a result of the thermal processing and/or hardness testing cited in this Process Certification. Material processed in a mercury-, radium- and asbestos-free environment. Unless otherwise specified above, for all AMS material specifications, no qualification or periodic testing has been performed.



HADD-CO INSPECTION LAB

2420 Amsler Street, Torrance, CA 90505

Toll Free: (888) 339-8472 Phone: (310) 325-7620 Fax: (310) 325-9655

www.haddco.com Email: NDT@haddco.com

NO. 14320

Sold To:

BUTLER, INC
1600 W. 166TH ST.
GARDENA, CA 90249

P.O. Number:

24043

Job/Lot #:

15492

Completion Date:

10/30/12

CERTIFICATION

QUANTITY	PART NUMBER	DESCRIPTION
32	AN4C46A REV. 2	MPI PER ASTM-E-1444M-11 NASM6812-2 MATL: 431 NOT PLATED HEAT #G18835 NO REJECTS

REVIEWED BY:

JB
A 5

DATE: 10-31-12

This is to certify that 100% of the parts under subject purchase order have been inspected by Magnetic Particle Inspection in accordance with all applicable and/or purchase order requirements.

Inspector:

T. Llanes

TOMMIE LLANES LEVEL II



NOTE: Altering of this certification renders it void.



element

Element Materials Technology
15062 Bolsa Chica
Huntington Beach, CA
92649-1023 USA

P 714 892 1961
F 714 892 8159
T 888 786 7555
info.hb@element.com
element.com

Contact: Tod Polidori
Butler, Inc.
1600 West 166th Street
GARDENA, CA 90247

TEST CERTIFICATE — EAR-CONTROLLED DATA

Date: 11/1/2012
Purchase Order Number: 24041
Work Order Number: BUT004-10-30-00808-1

Part No.:	AN4C46A REV. 2
Lot No.:	15492
Heat No.:	G18835
Material:	431
Specification:	NASM6812-2

FASTENER EVALUATION — STAINLESS STEEL

Number of Pieces: 5

Etchant: Vilella's

Micro: Ambient

Temperature: 100X/200X

Magnification: Vilella's

Macro: Ambient

Temperature: 20X

Magnification:

Grain Flow: Grain flow follows the contour of the head. (Acceptable)

Head: Grain flow follows the contour of the head to shank fillet. (Acceptable)

Head to Shank Fillet: Grain flow follows the contour of the threads. (Acceptable)

Threads: The entire sample shows no evidence of cracks.

Cracks:

Discontinuities / Defects: No discontinuities / defects found.

Head:

Threads:

Crest Laps: 0.0015" (Within limits)

Flank Laps: No discontinuities / defects found.

Root Laps: No discontinuities / defects found.

Grain Growth: None

Grain Size: ASTM 7.0

Surface Condition on Head: No surface contamination (IGA) found.

Surface Condition on Threads: No surface contamination (IGA) found.

Microstructure: Exhibits fine tempered martensite with no visible carbide precipitation in the grain boundaries.

Surface Hardening: None except as created in cold working rolling of threads.


MATERIAL CONFORMS TO SPECIFICATION

This document contains technical data whose export and re-export/ retransfer is subject to control by the U.S. Department of Commerce under the Export Administration Act and the Export Administration Regulations. The Department of Commerce's prior written approval may be required for the export or re-export/retransfer of such technical data to any foreign person, foreign entity or foreign organization whether in the United States or abroad.

REVIEWED BY: 

DATE: 11/1/12

Respectfully submitted


Kelly Nguyen
Senior Quality Administrator

15062 Bolsa Chica, Huntington Beach, CA 92649
(714) 892-1961 ph • (714) 892-8159 fax www.element.com

The information contained in this certification represents only the material submitted and is certified only for the quantities tested. Reproduction except in full is reserved pending written approval. The recording of false, fictitious, or fraudulent statements or entries on the certificate may be punishable as a felony under federal law. All testing was performed in a mercury free environment. All testing performed in accordance with the latest edition of the applicable ASTM, or other Federal Test Method in effect at the time of test.

Allblack Company,LLC

13090 Park St.
Santa Fe Springs, CA 90670
Phone: (562) 946-2955
Fax: (562) 946-6665

Certificate of Conformance

To: Butler Inc.

1600 West 166th Street
Gardena, CA 90247
United States

From: Allblack Company,LLC

13090 Park St.
Santa Fe Springs, CA 90670

Packing List No: 325154
Shipping Date: 11/01/12

Today's Date: 11/01/12
PO Number: 23665

MERCURY FREE PROCESS

Quantity	Shipped	Unit	Description	Job Number
1	LOT		PASSIVATE PER AMS2700E 1290PCS. OF P/N AN4C46A REV 2 LOT#15492 HT#G18835 MATL:431, 90# 3PNS.	439706
1	EA		FUEL FEE	439707

GENTLEMEN: This is to certify that the following articles have been processed and/or inspected as indicated above in accordance with military standards and specifications. If testing is not noted then no testing was performed. If a specification is not called out on the purchase order, then the process was performed per best commercial practice.

REVIEWED BY:

JB
A11

DATE: 11/1/12

Inspector's Initials



**PERRY JOHNSON
REGISTRARS, INC.**

ISO 9001 REGISTERED

BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



**PERRY JOHNSON
REGISTRARS, INC.**

ISO 9001 REGISTERED

CERTIFIED TEST REPORT

CAGE CODE: 59053

PART NO: AN4C46A REV: 2

LOT NO: 15492

HEAT NO: G18835

MAT'L: 431

PROCUREMENT SPEC: NASM6812 REV: 2

LOT SIZE: 1204

TEST DATE: 11/01/12

CERTIFICATION NO: 4605

Test type: **Rockwell hardness**

Test value: N/A

Test method:

Butler procedure no:

Results:

1.	5.	9.	13.	17.	21.	25.	29.
2.	6.	10.	14.	18.	22.	26.	30.
3.	7.	11.	15.	19.	23.	27.	31.
4.	8.	12.	16.	20.	24.	28.	32.

Technician: _____

Stamp: _____

Test type: **Axial tensile**

Test value: 4080 lbs min

Test method: NASM1312-8

Butler procedure no: BIQOP-5-8-4

Results:

1. 5960 lbs	5. 6189 lbs	9.	13.	17.	21.	25.	29.
2. 6234 lbs	6.	10.	14.	18.	22.	26.	30.
3. 6211 lbs	7.	11.	15.	19.	23.	27.	31.
4. 6219 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: F. Ron

Flavio Ron

Stamp:

Test type: **Double shear**

Test value: 7360 lbs min

Test method: NASM1312-13

Butler procedure no: BIQOP-5-8-5

Results:

1. 8889 lbs	5. 8821 lbs	9.	13.	17.	21.	25.	29.
2. 8835 lbs	6.	10.	14.	18.	22.	26.	30.
3. 8711 lbs	7.	11.	15.	19.	23.	27.	31.
4. 8761 lbs	8.	12.	16.	20.	24.	28.	32.

Technician: F. Ron

Flavio Ron

Stamp:

Test type: **Recess torque**

Test value: N/A

Test method:

Butler procedure no:

Deformation allowable:

Installation:

Removal:

Sample size:

Results:

Technician: _____

Stamp: _____

Test type: **Magnetic permeability**

Test value: N/A

Test method:

Butler procedure no:

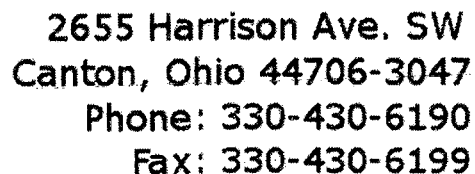
Results:

Sample size:

Technician: _____

Stamp: _____

Material, as tested, conforms to specification requirements. The information on this report represents only the material tested. This report shall not be reproduced except in full without the written approval of Butler Inc.



C.O.R.E. AVIATION SERVICES

[illegible]

MANUFACTURERS OF AIRCRAFT FASTENERS AN/MS-NAS
CALIFORNIA SCREW PRODUCTS CORP.

14957 GWENCHRIS COURT-

PARAMOUNT, CALIF. 90723-3423

CAGE NUMBER : 82507

Airbus UK Approval No. AUK/SA/30144

Job Number : 327056
 BAE/AG/30235 / MAA

Part Number : AN6C44A
 Customer : FASTENER DIMENSIONS, INC.
 Procurement Spec. : NASM6812 REV. 3
 Surface Finish Spec : AMS2700 REV. 3
 Heat Treat Spec : AMS2759/5 REV. D
 Mgmt Permeability : N/A

TEST REPORT

Part Standard : NASM-20 REV. 2
 Cust. Purchase Order Number : P56327
 Thread Size & Form : .375-24 UNF-3A
 Thread Spec : MIL-S-7742 REV. D
 Sample Size Spec. : NASM6812 REV. 3

Shipped Quantity* : 1000
 Mfg Quantity : 1240
 Matl Spec: AMS 5628 REV. F
 Item Description: Bolt
 Heat Number: 258782

* Actual piece count is within +/- 2% of the shown lot quantity.

NON-DESTRUCTIVE TESTS / SUBCONTRACTED (SEE CERTIFICATION)

Inspection Results:

Accept : 32 Reject : 0 specimens
 Fluorescent Penet. : N/A

Sample Size : 32 specimens
 Magnetic Particle : ASTM E1444M-12

METALLURGICAL EXAMINATION RESULTS

Sample Size : 5 specimens Accept : 5 Reject : 0 Lab Mount No. : 44942
 GRAIN SIZE : 8.0 HEAD STRUCTURE : Accept LAPS : Accept MICRO STRUCTURE : Accept
 FILLET COLD WORKED : Accept DECARE : Accept SEAMS : Accept CARBURIZED : Accept
 GRAIN FLOW HEAD : Accept GRAIN FLOW THREAD : Accept CRACKS : Accept THREAD RUN OUT : Accept

MECHANICAL TESTS RESULTS

ULTIMATE TENSILE STRENGTH (lbs.) - Loc. of Failure: Threads
 Sample Size : 5 specimens Accept : 5 Reject : 0

Minimum Req. : 10100
 Maximum Req. : 0

1. 13998	2. 13742	3. 13753	4. 13762	5. 13763	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

SHEAR (lbs.) S/D : SINGLE Sample Size : 5 specimens Accept : 5 Reject : 0 Minimum Req. : 8280

1. 9268	2. 8942	3. 9114	4. 9280	5. 9199	6. N/A	7. N/A	8. N/A
9. N/A	10. N/A	11. N/A	12. N/A	13. N/A	14. N/A	15. N/A	16. N/A
17. N/A	18. N/A	19. N/A	20. N/A	21. N/A	22. N/A	23. N/A	24. N/A
25. N/A	26. N/A	27. N/A	28. N/A	29. N/A	30. N/A	31. N/A	32. N/A

HARDNESS TEST

Sample Size : 13

Hardness Req. RC : 26-32

Hardness Results : 27-29

STRESS RUPTURE TEST - N/A Load (Lbs.) : 0 Temperature (F) : 0 Periodic test, REF Job No.
 Sample Size : 0 Hours : 0

FATIGUE TEST - N/A Cycles : 0 Min Req. : 0
 Sample Size : 0 Low Load (lbs.) : 0 High Load (lbs.) : 0

TORQUE TEST - N/A Sample Size : 0 Load (Lbs/in) : 0

STRESS DURABILITY TEST - N/A Sample Size : 0 LOAD (Lbs.) : 0 Hours : 0

STATEMENT OF CONFORMANCE:

This report relates only to items inspected/tested. Deviations from standard test methods, if any, are noted, and results from subcontracted inspection or testing, if any, are identified. All items were manufactured in the USA under a quality management system, which complies with ISO-9004 and with AS 9100. CALIFORNIA SCREW PRODUCTS CORP, hereby states: That the above product is mercury free; that the above listed lot has been produced, sampled, tested, inspected and marked in accordance with all requirements and that the product complies with all specification and contract requirements; that evidence of which is in the files of our company subject to examination. This report shall not be reproduced except in full, unless authorized in writing by CALIFORNIA SCREW PRODUCTS CORPORATION.

MARIAELENA
 TORRES

DFAR 252.225.7009
 COMPLIANCE



MAR 07 2014
 FINAL INSPECTOR

(Name, Signature, Stamp and Date)

BUTLER, INC.

1600 W. 166th STREET
GARDENA, CA-90247

Packing List

Customer No.: C.O.R.E

Ship To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Bill To: **CORE AVIATION SERVICES, INC.**
16305 E. TWIN ACRES DR.
GILBERT, AZ 85298

Date		Ship Via		F.O.B.	Terms	
04/10/15		UPS PPD & ADD		Origin		
Purchase Order Number		Order Date		Sales Person		Our Order Number
STK150410		04/10/15				17710
Quantity			U/M	Item Number	Description	Serial Number
Req	Shipped	B.O.				
40	40		each	AN8C21A	LOT 15494	

BUTLER INC.

Thank You

1600 West 166th Street Gardena, CA 90247
(310) 323-3114 FAX (310) 324-0914



BUTLER INC.

1600 W. 166th STREET
GARDENA, CALIFORNIA 90247
(310) 323-3114 / FAX (310) 324-0914



CAGE # 59053

C.O.R.E. AVIATION SERVICES
16305 E. TWIN ACRES DRIVE
GILBERT, AZ 85298

CERTIFICATE OF COMPLIANCE

BUYER ORDER NO.: 27791-5 ITEM: 1

NSN #: NA PART NUMBER: AN8C21A REV: 2

DESCRIPTION: BOLT, HEX HEAD, .5000-20 x 2.219, 431, PASSIVATE

SPECIFICATIONS: NASM6812-3, ASTM A 493-09, AMS-H-6875B, AMS2700E

QUANTITY: 40 LOT #: 15494 HEAT #: G18870

BUTLER INC. HEREBY CERTIFIES THAT THIS LOT HAS BEEN PRODUCED, SAMPLED, INSPECTED, TESTED, MARKED AND PACKAGED IN ACCORDANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS. FURTHERMORE, BUTLER INC. CERTIFIES THAT DOCUMENTED EVIDENCE OF COMPLIANCE WITH ALL CONTRACT, DRAWING AND SPECIFICATION REQUIREMENTS APPLICABLE TO THIS LOT IS ON FILE AT OUR PLANT IN THE FORM OF MECHANICAL, METALLURGICAL AND/OR CHEMICAL TEST REPORTS AND INSPECTION RECORDS, AND IS AVAILABLE FOR BUYERS REVIEW.

DATE OF EXECUTION: 04/10/15

SIGNATURE: Tod F. Polidori

TOD F. POLIDORI

TITLE: Q.A. MANAGER

MAC FASTENERS, INC.
1110 ENTERPRISE
OTTAWA, KANSAS 66067

**CERTIFICATE OF CONFORMANCE
AND
MANUFACTURER'S AFFIDAVIT**

CUSTOMER: FASTENER DIMENSIONS

DATE: 03/28/06

PO NUMBER: 31396

PART NUMBER: AN8C21A

REVISION: 1

COUNTRY OF ORIGIN: UNITED STATES OF AMERICA

LOT NUMBER: 29420

MANUFACTURED QUANTITY: 1,012

MILL HEAT NUMBER: 545660

We certify that the parts furnished against the above referenced purchase order were manufactured by MAC FASTENERS, INC. within the United States, and were processed in conformance with all applicable drawings and specifications.

Objective evidence of compliance is on file, subject to examination upon request.


QUALITY ASSURANCE REPRESENTATIVE